

F324 19 June 2013 Question Paper

This volume presents the preliminary results of the work carried out by the interdisciplinary cultural techniques research lab at the University of Erfurt. Taking up an impulse from media studies, its contributions examine –from a variety of disciplinary perspectives–the interplay between the formative processes of knowledge and action outlined within the conceptual framework of cultural techniques. Case studies in the fields of history, literary (and media) studies, and the history of science reconstruct seemingly fundamental demarcations such as nature and culture, the human and the nonhuman, and materiality and the symbolical order as the result of concrete practices and operations. These studies reveal that particularly basic operations of spatialization form the very conditions that determine emergence within any cultural order. Ranging from manual and philological "paper work" to practices of opening up and closing off spaces and collective techniques of assembly, these case studies replace the grand narratives of cultural history focusing on micrological examinations of specific constellations between human and nonhuman actors.

The Eighth Doctor faces new perils in this bumper collection of classic comic adventures This volume features eight amazing stories: "The Fallen," "Unnatural Born Killers," "The Road to Hell," "The Company of Thieves," "The Glorious Dead," "The Autonomy Bug," "Happy Deathday," and "TV Action " Also included are two bonus stories from the early days of "Doctor Who Weekly," "Throwback: The Soul of a Cyberman" and "Ship of Fools," telling the origins of Kroton the Cyberman And, a special six-page, behind-the-scenes feature where writers Scott Gray, Alan Barnes, and Adrian Salmon reveal background information on the stories' origins, alongside never-before-seen sketches and character designs from Salmon and fellow artists Martin Geraghty and Roger Langridge.

The Volume II is entitled "Neurostimulation and pharmacological approaches". This volume describes augmentation approaches, where improvements in brain functions are achieved by modulation of brain circuits with electrical or optical stimulation, or pharmacological agents. Activation of brain circuits with electrical currents is a conventional approach that includes such methods as (i) intracortical microstimulation (ICMS), (ii) transcranial direct current stimulation (tDCS), and (iii) transcranial magnetic stimulation (TMS). tDCS and TMS are often regarded as noninvasive methods. Yet, they may induce long-lasting plastic changes in the brain. This is why some authors consider the term "noninvasive" misleading when used to describe these and other techniques, such as stimulation with transcranial lasers. The volume further discusses the potential of neurostimulation as a research tool in the studies of perception, cognition and behavior. Additionally, a notion is expressed that brain augmentation with stimulation cannot be described as a net zero sum proposition, where brain resources are reallocated in such a way that gains in one function are balanced by costs elsewhere. In recent years, optogenetic

methods have received an increased attention, and several articles in Volume II cover different aspects of this technique. While new optogenetic methods are being developed, the classical electrical stimulation has already been utilized in many clinically relevant applications, like the vestibular implant and tactile neuroprosthesis that utilizes ICMS. As a peculiar usage of neurostimulation and pharmacological methods, Volume II includes several articles on augmented memory. Memory prostheses are a popular recent development in the stimulation-based BMIs. For example, in a hippocampal memory prosthesis, memory content is extracted from hippocampal activity using a multiple-input, multiple-output non-linear dynamical model. As to the pharmacological approaches to augmenting memory and cognition, the pros and cons of using nootropic drugs are discussed.

The Economic Geography of Cross-Border Migration

The Annalist

Assembling Spaces, Texts & Collectives

The Crimean War

Annual Report ...

British Grand Strategy against Russia, 1853-56

The CXCR4 Ligand/Receptor Family and the DPP4 Protease in High-Risk Cardiovascular Patients

Cardiovascular disease (CVD) is the most common cause of morbidity and mortality worldwide, putting a major burden on life quality and social health care systems. Type 2 diabetes mellitus (T2DM) and chronic kidney disease (CKD) have been identified as important risk factors for CVD, severely increasing the risk on e.g. myocardial infarction, and cardiovascular complications constitute the main cause of death in patients presenting with T2DM, CKD or a combination of both. As these pathologies are expected to rise alarmingly in the next decades, a better understanding of molecular and cellular mechanisms contributing to T2DM, CKD and CVD is required to improve prevention and treatment of these diseases. Furthermore, insight into the interplay between these pathologies and identification of molecular players interconnecting these comorbidities is of tremendous importance for optimal health management in the future. This Research Topic will focus on the chemokine receptor CXCR4 and its ligands CXCL12/SDF-1a and macrophage migration inhibitory factor (MIF) in the context of CVD and its link with T2DM and CKD, as well as address dipeptidyl peptidase-4 (DPP4) as an important protease destabilizing CXCL12. Chemokines and their receptors are important mediators of cell mobilization, recruitment and arrest, and also more broadly induce cell activation by triggering various intracellular signalling tracks. They control homeostatic conditions, but are also critically involved in inflammatory and pathological processes. Genome-wide association studies revealed single nucleotide polymorphisms connecting CXCL12 as well as MIF with CVD, and a role for both chemokines in T2DM and CKD has also been reported. In this review collection, current knowledge on molecular aspects of the CXCR4 ligand/receptor family and associated signalling pathways will be discussed. The physiological roles of CXCR4, CXCL12, MIF and DPP4 will be summarized, and recent findings on their function in pathological conditions of CVD, T2DM and CKD will be highlighted. This is combined with an extensive introduction providing insight into the pathologies of CVD, T2DM and CKD, discussing clinical features and common pathological aspects of these comorbidities on cellular and molecular level. Also, an overview of available animal models to study these diseases will be provided. This way, this Research Topic summarizes latest knowledge on this crucial molecular axis and its relationship with cardiovascular pathologies for both specialists and interested non-

specialists and aims to stimulate further initiatives to unravel the mechanistic involvement of the CXCR4 ligand/receptor family in these morbidities, potentially paving the way for new therapeutical initiatives in the future.

Neuroergonomics: The Brain at Work and in Everyday Life details the methodologies that are useful for keeping an ideal human-machine system up-to-date, along with information on how to prevent potential overload and minimize errors. It discusses neural measures and the proper methods and technologies to maximize performance, thus providing a resource for neuroscientists who want to learn more about the technologies and real-time tools that can help them assess cognitive and motivational states of human operators and close the loop for advanced human-machine interaction. With the advent of new and improved tools that allow monitoring of brain activity in the field and better identification of neurophysiological markers that can index impending overload or fatigue, this book is a timely resource on the topic. Includes neurobiological models to better understand risky decision-making and cognitive countermeasures, augmented cognition, and brain stimulations to enhance performance and mitigate human error Features innovative methodologies and protocols using psychophysiological measurements and brain imaging techniques in realistic operational settings Discusses numerous topics, including cognitive performance in psychological and neurological disorders, brain computer interfaces (BCI), and human performance monitoring in ecological conditions, virtual reality, and serious gaming

A team of 16 experts underline the binds and exchanges between different contexts and artistic techniques that copies established in the Renaissance, and how the history of taste is sophisticated and complex.

*Shifting Tastes, Modes of Transmission, and Changing Contexts
Evolution and Disease*

Cooking Vegan

Immigration and the Labour Market

Greek New Testament Manuscripts from Albania

The Commercial and Financial Chronicle

Theory, Evidence and Policy

The nervous system plays an important role in the regulation of immunity and inflammation. On the other hand unbalanced immune responses in inflammatory and autoimmune conditions may have a deleterious impact on neuronal integrity and brain function. Recent studies have characterized neural pathways communicating peripheral inflammatory signals to the CNS, and brain- and spinal cord-derived circuitries controlling various innate and adaptive immune responses and inflammation. A prototypical neural reflex circuit that regulates immunity and inflammation is the vagus nerve-based "inflammatory reflex". Ongoing research has revealed cellular and molecular mechanisms underlying these neural circuits and indicated new therapeutic approaches in inflammatory and autoimmune disorders. Pharmacological and bioelectronic modulation of neural circuitry has been successfully explored in preclinical settings of sepsis, arthritis, inflammatory bowel disease, obesity-driven

disorders, diabetes and other diseases. These studies paved the way to successful clinical trials with bioelectronic neuronal modulation in rheumatoid arthritis and inflammatory bowel disease. Dysregulated release of cytokines and other inflammatory molecules may have a severe impact on brain function. Brain inflammation (neuroinflammation), imbalances in brain neuronal integrity and neurotransmitter systems, and cognitive impairment are characteristic features of post-operative conditions, sepsis, liver diseases, diabetes and other disorders characterized by immune and metabolic dysregulation. Derangements in cytokine release also play a pivotal role in depression. Characteristic brain reactive antibodies in autoimmune conditions, including systemic lupus erythematosus and neuromyelitis optica, significantly contribute to brain pathology and cognitive impairment. These studies, and the simultaneous characterization of neuro-protective cytokines, identified new therapeutic approaches for treating neurological complications in inflammatory and autoimmune disorders. This *Frontiers Research Topic* is a forum for publishing research findings and methodological and conceptual advances at the intersection of immunology and neuroscience. We hope that presenting new insight into bi-directional neuro-immune communication in inflammation and autoimmunity will foster further collaborations and facilitate the development of new efficient therapeutic strategies.

Travel, Art and Collecting in South Asia questions what are ideas of vertiginous collecting, art-making and museums as expanded fields, including wonder houses and missionary museums (or museobuses) in Britain and South Asia. If the historiography of British India has privileged photography and the 'Imperial Picturesque', the emphasis here is on the formation of a creole modernity, one that considers the relationship between art and labour, including pearlescence and pearl fishing in Sri Lanka, and the iconoclastic/fetish debates and forms of collecting amongst missionaries. Eaton explores these themes alongside the genealogies and modernities of white(ness) in contemporary curating and amateur female practice, and how the museobus or museum as a unique object has informed the work of contemporary artist group Raqs Media Collective. This book will be of interest to scholars in art history, Asian history, and imperial and colonial history.

Buildings are one of the main causes of the emission of greenhouse gases in the world. Europe alone is responsible for more than 30% of emissions, or about 900 million tons of CO₂ per year. Heating and air conditioning are the main cause of greenhouse gas emissions in buildings. Most buildings currently in use were built with poor energy efficiency criteria or, depending on the country and the date of construction, none at all. Therefore, regardless of whether construction regulations are becoming stricter, the real challenge nowadays is the energy rehabilitation of existing buildings. It is currently a priority to reduce (or, ideally, eliminate) the waste of energy in buildings and, at the same time, supply the necessary energy through renewable sources. The first can be achieved by improving the architectural design, construction methods, and materials used, as well as the efficiency of the facilities and systems; the second can be achieved through the integration of renewable energy (wind, solar, geothermal, etc.) in buildings. In any case, regardless of whether the energy used is renewable or not, the efficiency must always be taken into account. The most profitable and clean energy is that which is not consumed.

Volume II: Neurostimulation and Pharmacological Approaches

OCR Chemistry

Concise Computer Vision

Synthesis and Analytical Techniques

Untangling the Web

Augmentation of Brain Function: Facts, Fiction and Controversy

Public sector accounting (PSA) and reporting was subject to considerable national reforms during the last decades and is in the focus of the European Commission aiming to harmonize the accounting systems of its Member States by developing European Public Sector Accounting Standards (EPSAS).

Therefore, the topic is of high relevance for both academia and practitioners. This book provides different views about PSA in Europe as of today. It spans topics such as history of PSA, its differences to private sector accounting and finance statistics, as well as budgeting. A main part is devoted to International Public Sector Accounting Standards (IPSAS) by addressing their spread, conceptual framework and selected public sector specific standards, including a case study. Also, consolidated financial reporting is covered by drawing examples. This textbook is not only of use for students and researchers, but interested readers that seek for broad perspectives on PSA such as

practitioners and members of intergovernmental organisations. It intends to complement university teaching modules on PSA as those accessible for free under www.offene.uni-rostock.de/online-course-european-public-sector-accounting.

This handbook presents a collection of high-quality, authoritative scientific contributions on cross-border migration, written by a carefully selected group of recognized migration experts from around the globe. In recent years, cross-border migration has become an important and intriguing issue, from both a scientific and policy perspective. In the 'age of migration', the volume of cross-border movements of people continues to rise, while the nature of migration flows – in terms of the determinants, length of stay, effects on the sending and host countries, and legal status of migrants – is changing dramatically. Based on a detailed economic-geographical analysis, this handbook studies the motives for cross-border migration, the socio-economic implications for sending countries and regions, the locational choice determinants for cross-border migrants, and the manifold economic-geographic consequences for host countries and regions. Given the complexity of migration decisions and their local or regional impacts, a systematic typology of migrants (motives, legal status, level of education, gender, age, singles or families, etc.) is provided, together with an assessment of push factors in the place of origin and pull factors at the destination. On the basis of a solid analytical framework and reliable empirical evidence, it examines the impacts of emigration for sending areas and of immigration for receiving areas, and provides a comprehensive discussion of the policy dimensions of cross-border migration.

What are active materials? This book aims to introduce and redefine conceptions of matter by considering materials as entities that 'sense' and respond to their environment. By examining the modeling of, the experiments on, and the construction of these materials, and by developing a theory of their structure, their collective activity, and their functionality, this volume identifies and develops a novel scientific approach to active materials. Moreover, essays on the history and philosophy of metallurgy, chemistry, biology, and materials science provide these various approaches to active materials with a historical and cultural context. The interviews with experts from the natural sciences included in this volume develop new understandings of 'active matter' and active materials in relation to a range of research objects and from the perspective of different scientific disciplines, including biology, physics, chemistry, and materials science. These insights are complemented by contributions on the activity of matter and materials from the humanities and the design field. Discusses the mechanisms of active materials and their various conceptualizations in materials science. Redefines conceptions of active materials through interviews with experts from the natural sciences. Contextualizes, historicizes, and reflects on different notions of matter/materials and activity through contributions from the humanities. A highly

interdisciplinary approach to a cutting-edge research topic, with contributions from both the sciences and the humanities.

Immigration Economics

Illuminating Leonardo

Energy Efficiency in Buildings

A Weekly Newspaper Representing the Industrial Interests of the United States

Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971

A Festschrift for Carlo Pedretti Celebrating His 70 Years of Scholarship (1944-2014)

Textbook of Neurointensive Care

You will easily synthesize and analyze oligonucleotide conjugates by following the step-by-step protocols presented in this volume. These techniques are widely used by all molecular biologists and antisense researchers and find special application by pharmacologists working in new drug development and quality assurance assay.

Illuminating Leonardo offers new contributions from major scholars of Leonardo da Vinci covering all aspects of his genius, including his manuscripts and their aftermath, and the various fields of art and science. This updated and refined new edition is the only book to provide a comprehensive approach to the intensive care of neurologically injured patients from the emergency room and ICU through the operating room and post-surgical period. It reviews neuroanatomy, neuroradiology, and neurophysiology, examines the neurological problems most frequently seen in intensive care, and describes the various types of neurosurgery. General issues are discussed, such as cardiac care, fluids and electrolytes, nutrition, and monitoring as well as more specific conditions and complications including elevated intracranial pressure, seizures, and altered mental states.

Active Materials

Critical Content Analysis of Children's and Young Adult Literature

Making Copies in European Art 1400-1600

Protocols for Oligonucleotide Conjugates

Behavioral Health Care in the Military Health System

Access and Quality for Remote Service Members

Neuroergonomics

This textbook provides an accessible general introduction to the essential topics in computer vision. Classroom-tested programming exercises and review questions are also supplied at the end of each chapter. Features: provides an introduction to the basic notation and mathematical concepts for describing an image and the key concepts for mapping an image into an image; explains the topologic and geometric basics for analysing image regions and distributions of image values and discusses identifying patterns in an image; introduces optic flow for representing dense motion and various topics in sparse motion analysis; describes special approaches for image binarization and segmentation of still images or video frames; examines the basic components of a computer vision

system; reviews different techniques for vision-based 3D shape reconstruction; includes a discussion of stereo matchers and the phase-congruency model for image features; presents an introduction into classification and learning.

In this book the authors describe their strategies for critically reading global and multicultural literature and the range of procedures they use for critical analyses. They also reflect on how these research strategies can inform classrooms and children as readers. Critical content analysis offers researchers a methodology for examining representations of power and position in global and multicultural children's and adolescent literature. This methodology highlights the critical as locating power in social practices by understanding, uncovering, and transforming conditions of inequity. Importantly, it also provides insights into specific global and multicultural books significant within classrooms as well as strategies that teachers can use to engage students in critical literacy.

In Greek New Testament Manuscripts from Albania Didier Lafleur and Luc Brogly present a physical description of twenty-one artefacts and analyse textual features and variant readings of each of them. Based on a fresh autopsy of the documents, the survey combines textual criticism and codicology.

Shaping the Canons of Ancient Greek Historiography

Neuro-Immune Interactions in Inflammation and Autoimmunity

The Brain at Work and in Everyday Life

Healthful, Delicious, and Easy

Porphyry's On the Cave of the Nymphs in its Intellectual Context

Artistic Culture and Intellectual Property in the Nineteenth Century

An Introduction into Theory and Algorithms

Based on the careful analysis of several hundred publications, this book uniformly describes basic methods of analysis and critical results of the theory of retrieval queues. Chapters discuss analysis of single-server retrieval queues, including stationary and transient distribution of the number in the system, busy period, waiting time process, limit theorems, stochastic inequalities, traffic measurement multiserver retrieval queues - ergodicity, explicit formulas, algorithmic solutions, limit theorems, approximations advanced single-server and multiserver retrieval queues - models with priority subscribers, non-persistent subscribers, finite source queues. Lecturers, researchers, and students in probability, statistics, operations research, telecommunications, and computer systems modeling analysis will find Retrieval Queues to be an invaluable resource.

In contrast to every other book about the conflict Andrew Lambert's ground-breaking study *The Crimean War: British Grand Strategy against Russia, 1853-1856* is neither an operational history of the armies in the Crimea, nor a study of the diplomacy of the conflict. The core concern is with grand strategy, the development and implementation of national policy and strategy. The key concepts are strategic, derived from the works of Carl von Clausewitz and Sir Julian Corbett, and the main focus is on naval, not military operations. This original approach rejected the 'Continentalist' orthodoxy that dominated contemporary writing about history of war, reflecting an era when British security policy was dominated by Inner German Frontier, the British Army of the Rhine and Air Force Germany. Originally published in 1990 the book appeared just as the Cold War ended; the strategic landscape for Britain began shifting away from the continent, and new commitments were emerging that heralded a return to maritime strategy, as adumbrated in the defence policy papers of the 1990s. With a new introduction that contextualises the 1990 text and situates it in the developing historiography of the Crimean War the new edition makes this essential book available to a new generation of

scholars.

COOKING VEGAN was designed to help vegan and non-vegans alike understand how to use plant-based foods to sustain and maintain good health. Internationally renowned vegan dietitian Vesanto Melina and professional chef Joseph Forest combine their expansive knowledge and experience in this tour de force of information and tempting recipes to help readers expand their nutritional knowledge and increase their culinary repertoire. A companion book to Vesanto's best-selling *Becoming Vegan* (coauthored with Brenda Davis, R.D.), COOKING VEGAN expertly demonstrates that a well-balanced vegan diet supplies all the nutrients our bodies need. Explicit information is given on which foods provide protein to help maintain fitness, the right combination of nutrients to build strong bones, the best sources for carbohydrates and fats, and smart choices for obtaining vitamins D and B12. Each recipe has a complete nutritional analysis listing the number of calories and the amount of protein, fat, carbohydrates, minerals, vitamins, and essential fatty acids per cup or serving. A Vegan Food Guide describes the necessary food groups and provides recommended servings for optimal nutrition. Special emphasis was placed on creating foods that appeal to the senses of sight, smell, taste, and touch. A beginner seeking simplicity and a gourmet chef exploring the depths and nuances of flavor will both find nourishing and appetizing meals easy to assemble. Twelve daily menus combine recipes to help people of any age, activity level, or ability in the kitchen get a sense of how to mix and match dishes to suit their needs. A few of the delicious recipes to savor include Cashew Cheese Lasagne, Fiesta Quinoa Salad w/ Lime Dressing, Portobello Mushroom Burgers, Tuscan Minestrone and Chocolate-Orange Cake. Cooking Vegan shows how to adopt a diet that is not only healthful, but inspirational to prepare, and satisfying to eat.

Theory and Practice

The Economic and Fiscal Consequences of Immigration

Travel, Art and Collecting in South Asia

Retrial Queues

Imitation, Classicism, and Literary Criticism

Vertiginous Exchange

Bradstreet's

The economic literature on international migration interests policymakers as well as academics throughout the social sciences. These volumes, the first of a new subseries in the Handbooks in Economics, describe and analyze scholarship created since the inception of serious attention began in the late 1970s. This literature appears in the general economics journals, in various field journals in economics (especially, but not exclusively, those covering labor market and human resource issues), in interdisciplinary immigration journals, and in papers by economists published in journals associated with history, sociology, political science, demography, and linguistics, among others. Covers a range of topics from labor market outcomes and fiscal consequences to the effects of international migration on the level and distribution of income – and everything in between. Encompasses a wide range of topics related to migration and is multidisciplinary in some aspects, which is crucial on the topic of migration Appeals to a large community of scholars interested in this topic and for whom no overviews or summaries exist

The main focus of this book is the ancient formation and development of the canons of Greek historiography. It takes a fresh look on the modern debate on canonical literature and deals with Greek historiographical traditions in the works of ancient rhetors and literary critics. Writings on historiography by Cicero, Quintilian, and Dionysius of Halicarnassus are chiefly taken into account to explore the canons of Greek historians in

Hellenistic and Roman Imperial Ages. Essential in canon-formation was the concept of classicism which took shape in the Age of Augustus, but whose earlier developments can be traced back to Isocrates, a model rhetor according to Dionysius at the end of the 1st century BC. The analysis explores also late-antique authors of school treatises and progymnasmata, a field where historiography had a pedagogical function. Previous studies on canonical literature have rarely considered historiography. This book examines not only the works of ancient historians and their legacy, but also the relationship between historiography, literary criticism, and the rhetorical tradition. Nearly 3% of the world's population no longer live in the country where they were born. George Borjas synthesizes the theories, models, and econometric methods used to identify the causes and consequences of international labor flows, and lays out with clarity a full spectrum of topics with crucial implications for framing debates over immigration.

European public sector accounting

Both New and Rehabilitated

A Magazine of Finance, Commerce and Economics

Handbook of the Economics of International Migration

The Commercial & Financial Chronicle ...

The NSA's Guide to Gathering Information on Google

The Immigrants

The authors evaluated access and quality of behavioral health care provided to service members who reside remotely from a military treatment facility and compared their care with that received by non-remote personnel.

A Rigorous Mathematical Approach To Identifying A Set Of Design Alternatives And Selecting The Best Candidate From Within That Set, Engineering Optimization Was Developed As A New Means Of Helping Engineers To Design Systems That Are Both More Efficient And Less Expensive And To Develop New Ways Of Improving The Performance Of Existing Systems.Thanks To The Breathtaking Growth In Computer Technology That Has Occurred Over The Past Decade, Optimization Techniques Can Now Be Used To Find Creative Solutions To Larger, More Complex Problems Than Ever Before. As A Consequence, Optimization Is Now Viewed As An Indispensable Tool Of The Trade For Engineers Working In Many Different Industries, Especially The Aerospace, Automotive, Chemical, Electrical, And Manufacturing Industries.In Engineering Optimization, Professor Singiresu S. Rao Provides An Application-Oriented Presentation Of The Full Array Of Classical And Newly Developed Optimization Techniques Now Being Used By Engineers In A Wide Range Of Industries. Essential Practical Explanations Of The Various Techniques Are Given In A Straightforward, User-Friendly Manner, And Each Method Is Copiously Illustrated With Real-World Examples That Demonstrate How To Maximize Desired Benefits While Minimizing Negative Aspects Of Design.Comprehensive, Authoritative, Up-To-Date, Engineering Optimization Provides In-Depth Coverage Of Linear And Nonlinear Programming, Dynamic Programming, Integer Programming, And Stochastic Programming Techniques As Well As Several Breakthrough Methods, Including Genetic Algorithms, Simulated Annealing, And Neural Network-Based Fuzzy Optimization Techniques.Designed To Function Equally Well As Either A Professional Reference Or A Graduate-Level Text, Engineering Optimization Features Many Solved Problems Taken From Several Engineering Fields, As Well As Review Questions, Important Figures, And Helpful References.Engineering Optimization Is A Valuable Working Resource

For Engineers Employed In Practically All Technological Industries. It Is Also A Superior Didactic Tool For Graduate Students Of Mechanical, Civil, Electrical, Chemical And Aeronautical Engineering.

This monograph, exclusively dedicated to the analysis of Porphyry's On the Cave of Necessity, provides his philosophical thoughts on the material world, relationship between soul and the salvation of the soul through the doctrines of Plato and Plotinus.

Circulation and Control

Cultural Techniques

Reframing Perspective

ICC Performance Code for Buildings and Facilities, 2015

Engineering Optimization

Docket No. 9373

Use the internet like a real spy. Untangling the Web is the National Security Agency's once-classified guide to finding information on the internet. From the basic to the advanced, this 650-page book offers a fascinating look at tricks the "real spies" use to uncover hidden (and not-so-hidden) information online. Chapters include: Google hacks Metasearch sites Custom search engines Maps & mapping Uncovering the invisible internet Beyond search engines: Specialized research tools Email lookups Finding people Researching companies A plain english guide to interworking Internet toolkits Finding ISPs Cybergeography Internet privacy and securityand over a hundred more chapters. This quote from the authors hints at the investigative power of the techniques this book teaches: Nothing I am going to describe to you is illegal, nor does it in any way involve accessing unauthorized data, [...but] involves using publicly available search engines to access publicly available information that almost certainly was not intended for public distribution. From search strings that will reveal secret documents from South Africa (filetype: xls site: za confidential) to tracking down tables of Russian passwords (filetype: xls site: ru login), this is both an instructive and voyeuristic look at how the most powerful spy agency in the world uses Google.

The Economic and Fiscal Consequences of Immigration finds that the long-term impact of immigration on the wages and employment of native-born workers overall is very small, and that any negative impacts are most likely to be found for prior immigrants or native-born high school dropouts. First-generation immigrants are more costly to governments than are the native-born, but the second generation are among the strongest fiscal and economic contributors in the U.S. This report concludes that immigration has an overall positive impact on long-run economic growth in the U.S. More than 40 million people living in the United States were born in other countries, and almost an equal number have at least one foreign-born parent. Together, the first generation (foreign-born) and second generation (children of the foreign-born) comprise almost one in four Americans. It comes as little surprise, then, that many U.S. residents view immigration as a major policy issue facing the nation. Not only does immigration affect the environment in which everyone lives, learns, and works, but it also interacts with nearly every policy area of concern, from jobs and the economy, education, and health care, to federal, state, and local government budgets. The changing patterns of immigration and the evolving consequences for American society, institutions, and the economy continue to fuel public policy debate that plays out at the national, state, and local levels. The Economic and Fiscal Consequences of Immigration assesses the impact of dynamic immigration processes on economic and

fiscal outcomes for the United States, a major destination of world population movements. This report will be a fundamental resource for policy makers and law makers at the federal, state, and local levels but extends to the general public, nongovernmental organizations, the business community, educational institutions, and the research community.

The nineteenth century witnessed a series of revolutions in the production and circulation of images. From lithographs and engraved reproductions of paintings to daguerreotypes, stereoscopic views, and mass-produced sculptures, works of visual art became available in a wider range of media than ever before. But the circulation and reproduction of artworks also raised new questions about the legal rights of painters, sculptors, engravers, photographers, architects, collectors, publishers, and subjects of representation (such as sitters in paintings or photographs). Copyright and patent laws tussled with informal cultural norms and business strategies as individuals and groups attempted to exert some degree of control over these visual creations. With contributions by art historians, legal scholars, historians of publishing, and specialists of painting, photography, sculpture, and graphic arts, this rich collection of essays explores the relationship between intellectual property laws and the cultural, economic, and technological factors that transformed the pictorial landscape during the nineteenth century. This book will be valuable reading for historians of art and visual culture; legal scholars who work on the history of copyright and patent law; and literary scholars and historians who work in the field of book history. It will also resonate with anyone interested in current debates about the circulation and control of images in our digital age.